EXHAUST EMISSION CONTROL DEVICE FOR DIESEL ENGINE	
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Inventor(s):	ARAKI YASUSHI; TAKEUCHI MASAHIKO
Applicant(s)::	TOYOTA MOTOR CORP
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EC Classification:	
Equivalents:	
Abstract	

PROBLEM TO BE SOLVED: To efficiently eliminate particulates in the exhaust gas of a diesel engine. SOLUTION: A diesel engine exhaust system is provided with an oxidation catalyst 5, and a particulate filter 6 disposed downstream of the catalyst 5 so as to collect particulates (soot) in exhaust gas. The particulate filter 6 is divided into a prefilter 7 and a main filter 8, and an oxidation catalyst is disposed (7S) between the filters 7, 8. NO2 generated by oxidizing NO in the exhaust by the catalyst 5 flows into the prefilter 7 and burns the collected soot so as to be reduced to NO. The oxidation catalyst at a part 7S converts this NO again into NO2 and supplies it to the main filter 8. Since NO after burning soot is converted into NO2 and reused to burn soot collected by the filter on the lower reaches, the quantity of NO2 contributing to the burning of soot is increased while maintaining the total quantity of NOX in the exhaust gas to the same quantity.

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【図2】本発明の、図1とは別の実施形態を説明する図

【符号の説明】

1…ディーゼルエンジン

4…排気通路

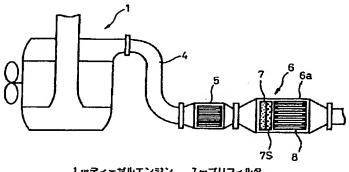
5…酸化触媒

6…フィルタアセンブリ

7…プリフィルタ

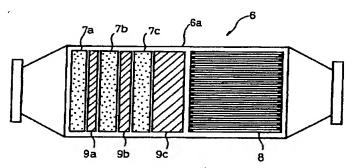
8…メインフィルタ

【図1】



7 … ブリフィルタ 75 … 触媒担持部分 8 …メインフィルタ

【図2】



6 ーフィルタアセンブリ 7 a. 7 b. 7 c. ーブリフィルタ 8 ーメインフィルタ 9 a. 9 b. 9 c. 一酸化粧媒